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SEQUENCE LISTING

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<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL SAMPLES AND METHODS OF USE THEREOF

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<140> US 09/394,019

<141> 1999-09-10

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<151> 1998-02-20

<150> US 08/802,981

<151> 1997-02-20

<160> 260

<170> PatentIn version 3.0

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Gly Tyr

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Gly Tyr

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Lys Gly Tyr

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Tyr

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Gly Tyr

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Gly Tyr

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Gly Tyr

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Gly Tyr

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Gly Tyr

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Lys Gly Tyr

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Lys Gly Lys

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Lys Gly Tyr

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Lys Gly Tyr

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Pro Lys Gly Tyr
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<222> (4)..(4)

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Pro Lys Gly Tyr
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<210> 45

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<210> 46

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<210> 47

<211> 16

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 49

<211> 18

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Gly Tyr

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<211> 18

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Gly Tyr

<210> 51

<211> 18

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 52
<211> 18
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<400> 52

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 53

<211> 17

<212> PRT

<213> Artificial

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Tyr

<210> 54

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<400> 54

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Tyr

<210> 55
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<213> Artificial

<220>
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<210> 56
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<400> 56

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<210> 57

<211> 18

<212> PRT

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Gly Tyr

<210> 58
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<400> 58

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asn Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 59
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<400> 59

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 60

<211> 16

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<400> 60

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<210> 61

<211> 16

<212> PRT

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<400> 61

Lys	Asp	Pro	Xaa	Gly	Ile	Glu	Thr	Glu	Ser	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5				10					15		

<210> 62

<211> 17

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<223> X is Aib

<400> 62

Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 63

<211> 17

<212> PRT

<213> Artificial

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Lys Asp Xaa Gly Ile Glu Thr Asn Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 64

<211> 19

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Lys Asp Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 65
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Lys Asp Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Pro Lys Gly
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Tyr

<210> 66
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<400> 66

Lys Asp Xaa Xaa Gly Ile Glu Thr Asp Ser Gly Val Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 67

<211> 17

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<400> 67

Lys	Asp	Xaa	Xaa	Gly	Ile	Glu	Thr	Asn	Ser	Gly	Val	Xaa	Pro	Lys	Gly
1				5					10					15	

Tyr

<210> 68

<211> 19

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<223> X is epsilon aminocaproic acid

<400> 68

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Gly Xaa Pro
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Lys Gly Tyr

<210> 69

<211> 19

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 69

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Xaa Pro
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Lys Gly Tyr

<210> 70

<211> 19

<212> PRT

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Lys Asp Xaa Gly Ser Glu Ser Met Asp Ser Gly Ile Ser Leu Asp Pro
1 5 10 15

Lys Gly Tyr

<210> 71

<211> 17

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Tyr

<210> 72

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<400> 72

Lys Asp Xaa Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Xaa Pro
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Lys Gly Tyr

<210> 73

<211> 19

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<400> 73

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 74

<211> 19

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Lys Gly Tyr

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 76
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Lys Gly Tyr

<210> 77

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 78

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<400> 78

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 79

<211> 18

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1 5 10 15
Gly Tyr

<210> 80
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<400> 80
Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Pro Gly Xaa Pro Lys
1 5 10 15
Gly Tyr

<210> 81
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1 5 10 15
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<210> 82

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Lys Gly Tyr

<210> 83

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<210> 84
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Lys Gly Tyr

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<210> 86
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Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Gly Xaa Pro Lys
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Gly Tyr

<210> 87
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<400> 89

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Lys Gly Tyr

<210> 90

<211> 19

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Lys Gly Tyr

<210> 91

<211> 19

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<400> 91

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Lys Gly Tyr

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Gly Tyr

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Gly Tyr

<210> 94

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Gly Tyr

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Lys Gly Tyr

<210> 96

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1 5 10 15

Lys Gly Tyr

<210> 97

<211> 19

<212> PRT

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Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 98

<211> 20

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<400> 98

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Pro Lys Gly Tyr
20

<210> 99

<211> 20

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Pro Lys Gly Tyr
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Pro Lys Gly Tyr
20

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
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Tyr

<210> 102

<211> 17

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
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Tyr

<210> 103

<211> 17

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Tyr

<210> 104

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Tyr

<210> 105

<211> 16

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Tyr

<210> 107

<211> 17

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Tyr

<210> 108

<211> 8

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<400> 108
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1 5
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<211> 11
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<223> D is blocked with Fmoc

<400> 109
Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10
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<211> 15

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<223> X is epsilon-aminocaproic acid

<400> 110

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 111

<211> 13

<212> PRT

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<223> X is epsilon-aminocaproic acid

<400> 111

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 112

<211> 15

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<223> X is epsilon aminocaproic acid

<220>

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<223> X is epsilon-aminocaproic acid

<400> 112

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 113

<211> 14

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<222> (4)..(4)

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<400> 113

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 114

<211> 13

<212> PRT

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<400> 114

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 115

<211> 14

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<223> X is epsilon aminocaproic acid

<220>

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<222> (10)..(10)

<223> X is epsilon-aminocaproic acid

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Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 116

<211> 13

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<223> X is 4-aminobutyric acid

<400> 116

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 117

<211> 13

<212> PRT

<213> Artificial

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<223> X is 8-aminobutyric acid

<400> 117

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<210> 118

<211> 17

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<222> (13)..(13)

<223> X is epsilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 118

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 119

<211> 17

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 119

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 120

<211> 17

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 121

<211> 17

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<220>

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<223> M is D form

<220>
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<400> 121

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 122
<211> 26
<212> PRT
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<220>
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<223> K is blocked with Fmoc

<400> 122

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

<210> 123

<211> 20

<212> PRT

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<222> (16)..(16)

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<220>

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<223> F is D form

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<400> 123

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 124

<211> 20

<212> PRT

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<400> 124

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 125

<211> 21

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 125

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 126

<211> 21

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<400> 126

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 127

<211> 21

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<400> 127

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 128

<211> 21

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1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 129

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<400> 129

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 130
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1 5 10 15
Gly Xaa Pro Lys Asp Asp Tyr
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<223> X is epsilon aminocaproic acid

<400> 131

Lys Asp Xaa Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
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<210> 132

<211> 18

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Asp Tyr

<210> 133

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1 5 10 15

Asp Tyr

<210> 134

<211> 15

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1 5 10 15

<210> 135

<211> 15

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1 5 10 15

<210> 136

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<400> 136

Lys Asp Xaa Gly Gln Gln Leu Leu His Asn Gly Pro Lys
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<210> 137
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1 5 10

<210> 141

<211> 11

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<222> (4)..(5)

<223> X is epsilon aminocaproic acid

<400> 142

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 143

<211> 15

<212> PRT

<213> Artificial

<220>

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<223> X is epsilon aminocaproic acid

<400> 143

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1 5 10 15

<210> 144

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> X is Aib

-
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Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1 5 10

<210> 145

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> X is Aib

<400> 145

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1 5 10

<210> 146

<211> 15

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 146

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys

1 5 10 15

<210> 147

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<221> MOD_RES

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<223> X is epsilon aminocaproic acid

<400> 147

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1 5 10 15

<210> 148

<211> 13

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<400> 148

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1 5 10

<210> 149

<211> 11

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<223> X is Aib

<400> 149

Lys Asp Xaa Ser Ser Ile Tyr Ser Gln Pro Lys
1 5 10

<210> 150

<211> 20
<212> PRT
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<400> 150

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 151

<211> 18

<212> PRT

<213> Artificial

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 151

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 152

<211> 18

<212> PRT

<213> Artificial

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<400> 152
Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15
Gly Tyr

<210> 153
<211> 18
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<223> X is epsilon aminocaproic acid

<400> 153

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 154
<211> 15
<212> PRT
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<220>
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<400> 154

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 155
<211> 18
<212> PRT
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<220>
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<400> 155
Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15
Gly Tyr

<210> 156
<211> 14
<212> PRT
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<222> (4) .. (4)

<223> X is epsilon aminocaproic acid

<400> 156

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 157

<211> 16

<212> PRT

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<220>

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<222> (4) .. (4)

<223> X is epsilon aminocaproic acid

<400> 157

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 158

<211> 18

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 158

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 159
<211> 19
<212> PRT
<213> Artificial

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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 159

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 160
<211> 18

<212> PRT

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<223> Synthetic peptide substrate

<220>

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<222> (14)..(14)

<223> X is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 160

Lys	Asp	Pro	Xaa	Gly	Glu	Asp	Val	Val	Cys	Cys	Ser	Gly	Xaa	Pro	Lys
1				5					10						15

Gly Tyr

<210> 161

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<400> 161

Asp Gly Ser Gly Gly Glu Asp Glu Lys
1 5 10

<210> 162

<211> 7

<212> PRT

<213> Artificial

<220>

<223> peptide spacer

<400> 162

Lys Glu Asp Gly Gly Asp Lys
1 5

<210> 163

<211> 8

<212> PRT

<213> Artificial

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<223> Peptide spacer

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<221> Artificial

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<223> Spacer

<400> 163

Asp Gly Ser Gly Glu Asp Glu Lys
1 5

<210> 164

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1)..(9)

<223> Spacer

<400> 164

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1 5

<210> 165

<211> 8

<212> PRT

<213> Artificial

<220>

<223> protease inhibitor

<400> 165

Asp Val Val Cys Cys Ser Met Ser
1 5

<210> 166

<211> 7

<212> PRT

<213> artificial

<220>

<223> protease inhibitor

<220>

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<222> (6)..(6)

<223> d amino acid

<400> 166

Asp Val Val Cys Pro Met Ser
1 5

<210> 167

<211> 9

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<221> MOD_RES

<222> (5)..(5)

<223> X is norleucine

<400> 167

Asp Ala Ile Pro Xaa Ser Ile Pro Cys
1 5

<210> 168

<211> 11
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<400> 168
Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 169
<211> 11
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<400> 169
Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10
<210> 170
<211> 12
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<223> P is derivatized with fluorophore

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<223> K is derivatized with fluorophore

<400> 170

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 171

<211> 12

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<223> Artificial sequence = synthetic protease indicator

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<223> K is derivatized with fluorophore

<400> 171

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 172

<211> 12

<212> PRT

<213> Artificial

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<400> 172
Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 173
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<400> 173
Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 174
<211> 14
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<400> 174

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 175
<211> 14
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<220>
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<400> 175

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 176
<211> 14
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Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 177

<211> 14

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<222> (12)..(12)

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<400> 177

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 178

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<400> 178

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr

1	5	10
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<210> 179
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<400> 179

Lys	Asp	Tyr	Asx	Ala	Asp	Gly	Ile	Asp	Pro	Lys	Gly	Tyr
1				5					10			

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<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (14)..(14)

<223> K is derivatized with fluorophore

<400> 180

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 181

<211> 18

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<223> Synthetic peptide substrate

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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<223> X is epsilon aminocaproic acid

<400> 181

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 182

<211> 18

<212> PRT

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<223> Synthetic peptide substrate

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<223> K is derivatized with benzyloxycarbonyl group

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<400> 182
Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15
Gly Tyr

<210> 183
<211> 13
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<223> K is derivatized with fluorophore

<220>

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<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 183

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 184

<211> 13

<212> PRT

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<400> 184

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 185

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<400> 185
Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 186
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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

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<222> (14)..(14)

<223> X is epsilon aminocaproic acid

<400> 186

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 187

<211> 18

<212> PRT

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<400> 187
Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15
Gly Tyr

<210> 188
<211> 14
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<400> 188

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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Gly Asp Glu Val Asp Gly Ile Asp

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<210> 190

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Gly Xaa Pro Lys
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Gly Tyr

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Ser Glu Val Lys Leu Asp Ala Glu Phe
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Glu Asp Val Val Cys Cys Ser
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Glu Glu Val Glu Gly Ile Asn
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Gly Ile Glu Thr Asp Ser Gly
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Leu Glu His Asp Gly Ile Asn
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Leu Glu Thr Asp Gly Ile Asn
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Trp Glu His Asp Gly Ile Asn
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Tyr Val His Asp Gly
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Tyr Val His Asp Gly Ile Asn
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Tyr Val His Asp Ala
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Thr Gly Arg Thr Gly
1 5

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Ser Glu Val Lys Leu Asp Ala Glu Phe
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Ile Glu Pro Asp Ser
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<400> 221

Pro Leu Gly Ile Ala Gly Ile
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Ser Gln Asn Tyr Pro Ile Val Gln
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Gly Gly Gly Gly
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1 5 10 15
Gly Tyr

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

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Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

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<400> 227

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
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Tyr

<210> 228

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Tyr

<210> 229

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
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Tyr

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<400> 231

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 232

<211> 13

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Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<400> 233

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 234

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Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

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Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
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<400> 236

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

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<211> 14

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Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<400> 238
Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 239
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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
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Pro Lys Gly Tyr
20

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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Cys
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Pro Lys Asp Asp Tyr
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<210> 241

<211> 18

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Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 242

<211> 18

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<400> 242

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 243

<211> 18

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<400> 243

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 244

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<400> 244

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 245

<211> 17

<212> PRT

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<400> 245

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 246

<211> 16

<212> PRT

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Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
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<223> X is epsilon-aminocaproic acid

<400> 247

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 248

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4) .. (4)

<223> X is epsilon-aminocaproic acid

<220>

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<222> (14) .. (14)

<223> X is epsilon-aminocaproic acid

<400> 248

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 249

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

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<222> (14)..(14)

<223> X is epsilon-aminocaproic acid

<400> 249

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 250

<211> 18

<212> PRT

<213> Artificial

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<400> 250

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 251

<211> 15

<212> PRT

<213> Artificial

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<223> X is epsilon-aminocaproic acid

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<222> (11)..(11)

<223> X is epsilon-aminocaproic acid

<400> 251

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 252

<211> 18

<212> PRT

<213> Artificial

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<400> 252

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys

1

5

10

15

Gly Tyr

<210> 253

<211> 14

<212> PRT

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<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

<400> 253

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 254

<211> 14

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is epsilon-aminocaproic acid

<400> 254

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 255

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> 4-aminobutyric acid

<400> 255

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1 5 10

<210> 256

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is 8-aminocaprylic acid

<400> 256

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 257

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> MOD_RES

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<223> X is 4-aminobutyric acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> X is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> F is D form

<220>

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<222> (7)..(7)

<223> E is D form

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<222> (10)..(10)

<223> L is D form

<400> 257

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 258

<211> 16

<212> PRT

<213> Artificial

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

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<221> MOD_RES

<222> (12)..(12)

<223> X is epsilon-aminocaproic acid

<400> 258

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 259

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is epsilon-aminocaproic acid

<400> 259

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys

1

5

10

15

Gly Tyr

<210> 260

Anaclede
<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is epsilon-aminocaproic acid

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<222> (15)..(15)

<223> X is epsilon-aminocaproic acid

<400> 260

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr